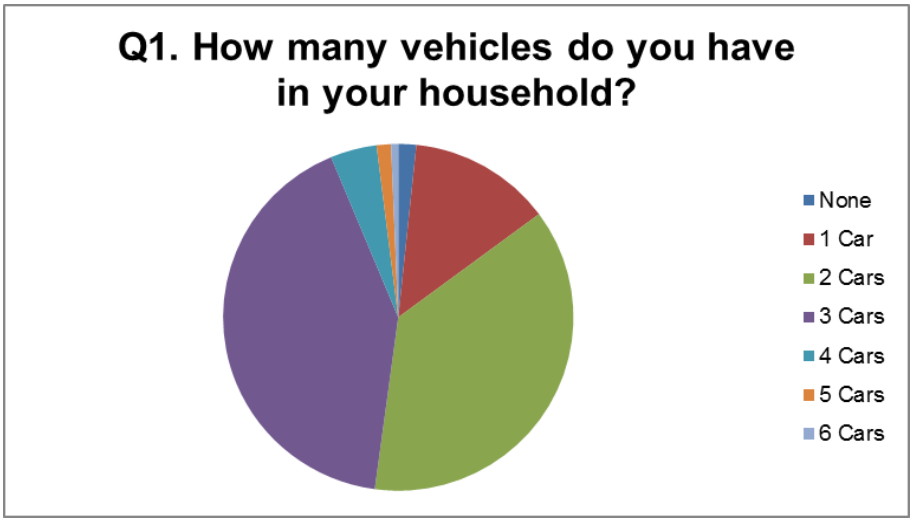
Introduction

A survey to seek views on the future provision for electric vehicle (EV) charging in Daventry District was held between 14 May and 22 June 2018. This followed on from a shorter survey in 2016 seeking views on locations for chargepoints and went into further detail to find out about driving patterns and interest in EV technology. The 2018 survey achieved 219 responses which helps to demonstrate the increased interest in this technology compared to the 69 responses received just two years ago. This report will summarise the answers to each question and help to steer the direction for future projects to develop the availability of EV infrastructure across Daventry District.

Question 1

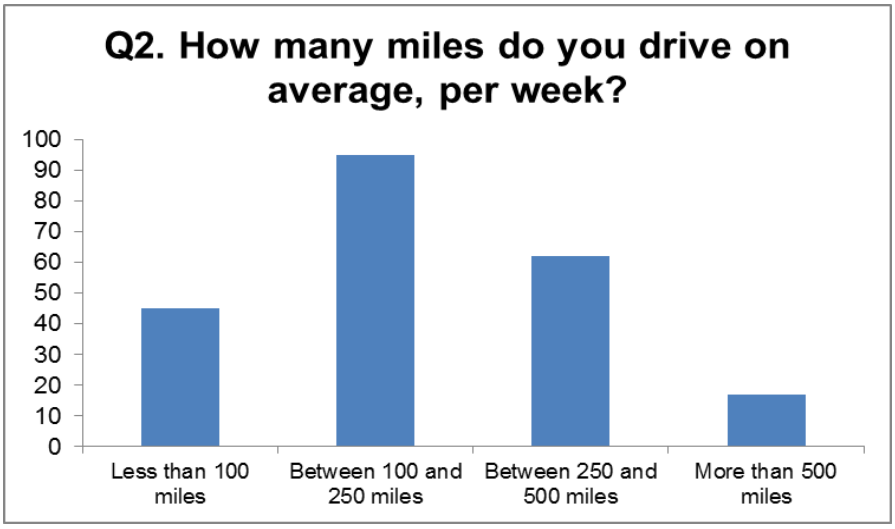
Q1. How many vehicles do you have in your household?	
None	5
1 Car	40
2 Cars	113
3 Cars	126
4 Cars	13
5 Cars	4
6 Cars	2



This first question was asked to gauge an idea of how many vehicles are in each household and therefore how many could potentially make the change to one vehicle being an EV. The majority of households possess three vehicles closely followed by households with two vehicles.

Question 2

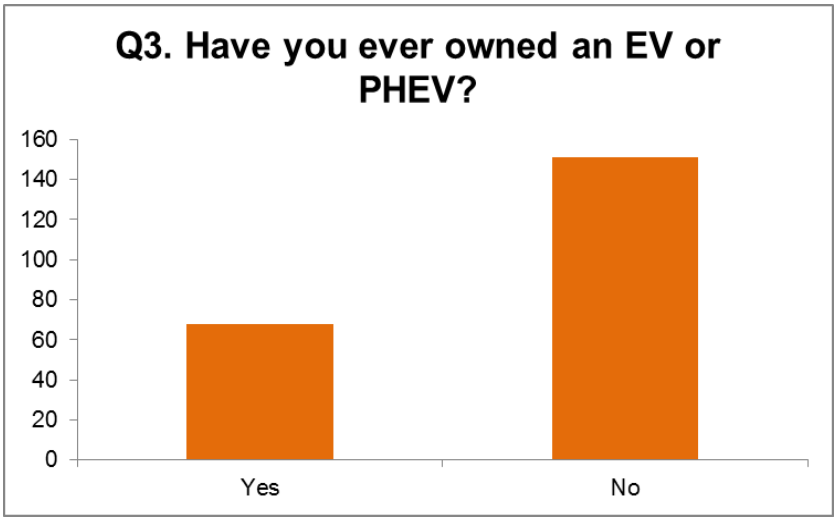
Q2. How many miles do you drive on average, per week?	
Less than 100 miles	45
Between 100 and 250 miles	95
Between 250 and 500 miles	62
More than 500 miles	17



The answers to this question show that the majority of respondents drive less than 250 miles per week. The average charge on an EV will provide a range of 70-90 miles, if appropriate public charging infrastructure was available almost two thirds of respondents could convert to an EV and would require as few as three full charges per week to be able to complete their usual mileage.

Question 3

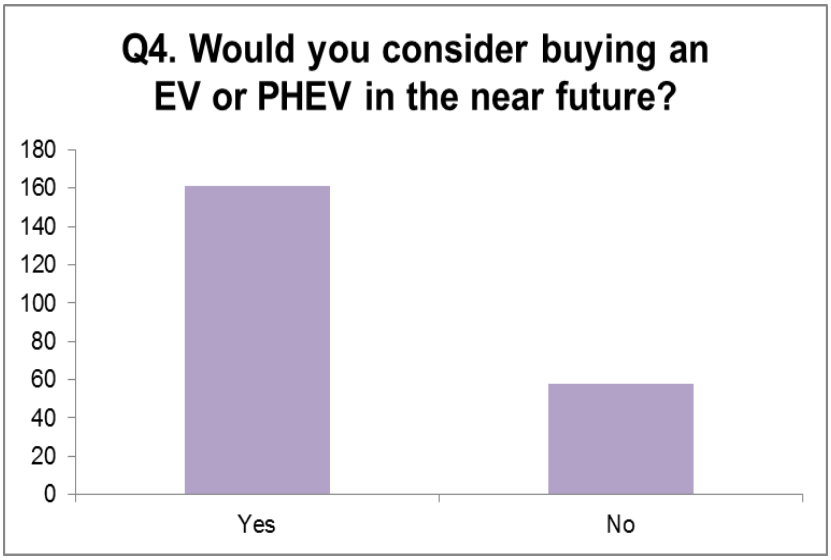
Q3. Have you ever owned an EV or PHEV?	
Yes	68
No	151



It is to be expected that fewer people have owned an EV or plug-in hybrid (PHEV) however it is surprising to see such a large number of respondents either currently own or have owned an EV before. This helps to show the increased investment in this technology by members of the public.

Question 4

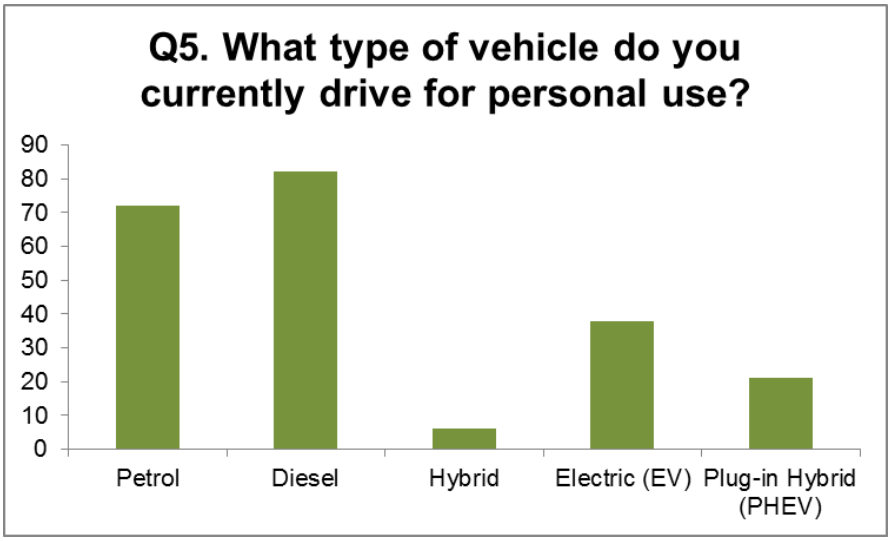
Q4. Would you consider buying an EV or PHEV in the near future?	
Yes	161
No	58



This is the most encouraging response to see that the vast majority of those who completed the survey would consider purchasing an EV or PHEV in the future. This shows that the demand is increasing and people are becoming more open to the possibility of driving an EV. This also supports the principle that charging infrastructure will be required to support this demand and Daventry District Council has a role to play in providing this infrastructure to our residents. Responses from this question have also been mapped across the district area and can be seen in Appendix 2.

Question 5

Q5. What type of vehicle do you currently drive for personal use?	
Petrol	72
Diesel	82
Hybrid	6
Electric (EV)	38
Plug-in Hybrid (PHEV)	21



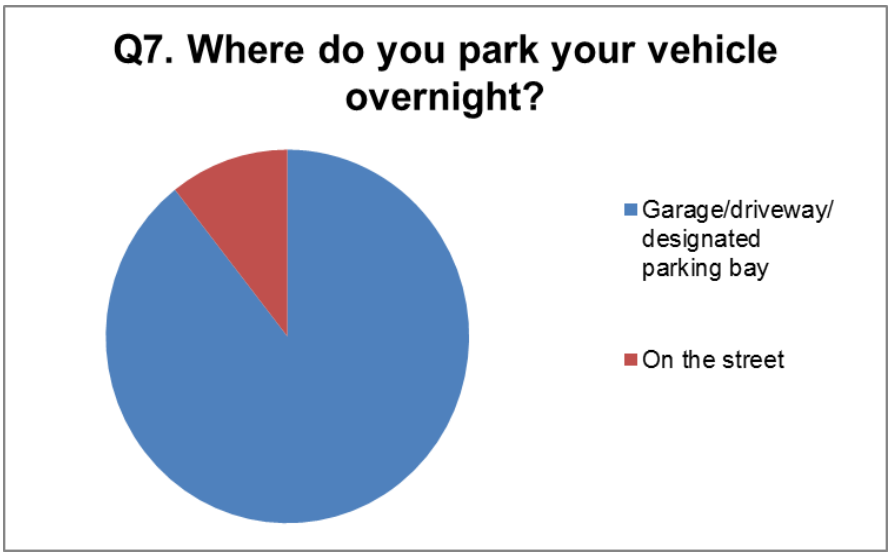
The vast majority of respondents currently drive either a diesel or petrol car. It is positive to see the number of people who own either a pure EV or a PHEV totalling 59 people. This follows on from the findings from question 4 and supports the fact that if EV charging points are installed in appropriate places, there are EV drivers in the area who will use them.

Question 6

Respondents who answered yes to owning an EV or PHEV were due to be taken to this question to ask if they charge their car at home, however unfortunately there appeared to be an error in the survey which meant that this question was not answered by any respondents.

Question 7

Q7. Where do you park your vehicle overnight?	
Garage/driveway/designated parking bay	143
On the street	17



Due to the rural nature of the District, the majority of respondents have access to some form of off-street parking overnight. 17 respondents park their vehicle on the street overnight.

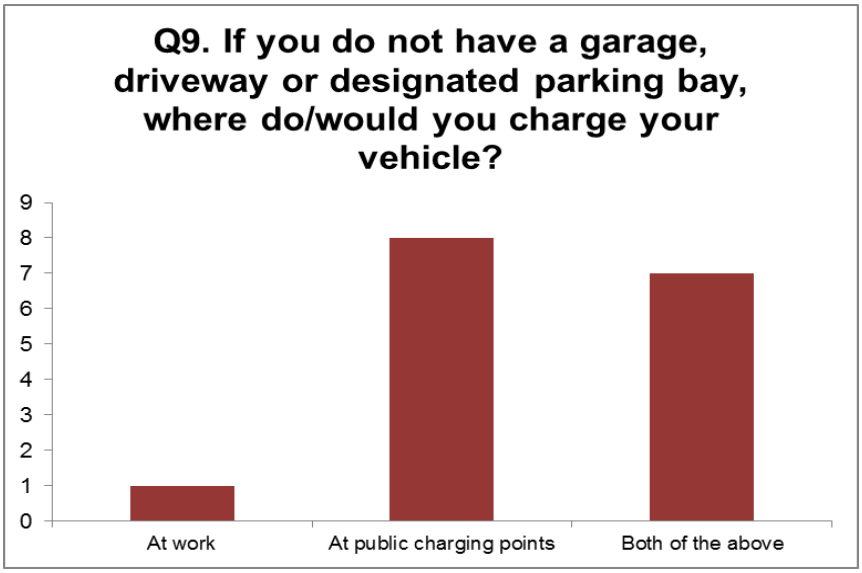
Question 8

Q8. Which of the following locations do you consider public chargepoints should be located? Tick as many as possible	
Place of work	135
Supermarket	142
Retail park	140
Residential areas	100
Other	56

The most popular response on this question was supermarkets closely followed by retail parks, place of work and lastly residential areas. Other suggestions included all public car parks, sports grounds, train stations, on-street charging and village locations. This shows a vast potential for the locations of chargepoints within the district and will enable Daventry District Council to explore these opportunities.

Question 9

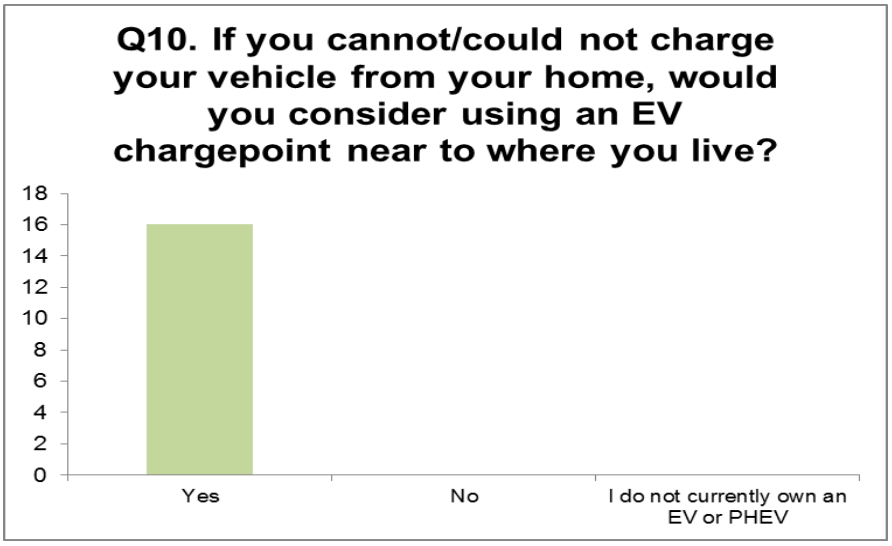
Q9. If you do not have a garage, driveway or designated parking bay, where do/would you charge your vehicle?	
At work	1
At public charging points	8
Both of the above	7



This question was only answered by those who do not have access to off-street parking at home. All respondents agreed that public charge points or chargepoints at work would be suitable. Daventry District Council intends to focus on installing public chargepoints as a priority.

Question 10

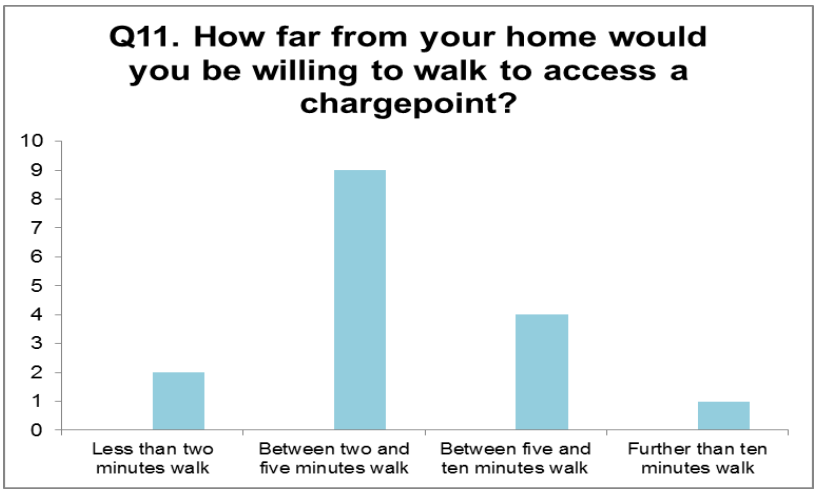
Q10. If you cannot/could not charge your vehicle from your home, would you consider using an EV chargepoint near to where you live?	
Yes	16
No	0
I do not currently own an EV or PHEV	0



This question was asked to see what level of interest there would be in using a public chargepoint in a residential area. This is to help demonstrate a demand for on-street charging to enable Daventry District Council to apply for a grant through the OLEV On-Street Residential Chargepoint Scheme. It is positive to see that all those who do not have access to off-street parking at home agreed that they would be happy to use a chargepoint that was located near to their house for example in a village centre location.

Question 11

Q11. How far from your home would you be willing to walk to access a chargepoint?	
Less than two minutes walk	2
Between two and five minutes walk	9
Between five and ten minutes walk	4
Further than ten minutes walk	1



Following on from question 10, respondents were asked how far they would be willing to walk to access a chargepoint located in a residential area near to their house. The most popular answer was between two and five minutes walk which is positive to see that people are prepared to walk a short distance to access a chargepoint.

Question 12

Q12. What are your reasons for not considering an EV or PHEV?	
Too expensive	29
Mileage range isn't good enough	48
Lack of charging options	19
Other	14

Those who answered “No” to question 4 regarding whether they would consider buying an EV in the near future were then directed to question 12 to find out their reasons for not considering this. It is clear to see from these answers that there is still some range anxiety from the general public when it comes to driving an EV and this is one of the main factors people are not yet considering them. Some negative answers were received in the other field stating that EVs are not the answer, other reasons provided include misconceptions regarding the electricity grid not being able to cope and that electricity is as expensive as conventional fuel.

Question 13

Respondents were asked to provide their postcode to enable us to map the responses and see the level of demand in different areas of the district. Four respondents were from outside the district and one did not provide their postcode. The map in Appendix 1 shows the count of all respondents by Parish, the largest number of respondents were in Daventry, Moulton and Long Buckby.

Question 14

Do you have any further comments to make about the future of EV charging in Daventry District?

This was an open ended question where residents were invited to provide any comments or concerns about the provison of EV charging infrastructure. Over 80% of those who provided comments were positive about installing more chargepoints. Comments include –

“The more points the better. It will encourage more people to buy electric vehicles”

“Make this happen as quickly as possible for the sake of the planet.”

“The more charging points there are the better. The current UK charging infrastructure cannot cope with the explosion of EV ownership in the near future.”

“I would love to have an electric vehicle, and sufficient public charging points would help me make the leap.”

“The growth in EV sales dwarfs the growth in petrol or diesel sales. If you don't act soon to facilitate the provision of charging infrastructure you will be too late. We don't expect the charging to be free, just available!”

Map Data

Along with the map in Appendix 1 showing the count of responses by Parish, data from questions 4 and 5 have been mapped to show the current and future demand for EV charging infrastructure across the district.

Appendix 2 shows the data from question 4 with the % of respondents who may purchase an EV/PHEV in the future. 80-100% of respondents in 22 of the parishes who engaged with the survey agreed that they would consider this type of vehicle in the future. Responses were received from 39 parishes and it can therefore be concluded that the majority of respondents to this survey were in support of electric vehicles.

Appendix 3 shows the count of respondents by Parish with the % of those who are currently EV/PHEV drivers shown in colour. The most useful data to see from this map which also shows the volume of responses, is that outside of Daventry town the villages of Guilsborough, Long Buckby and Brixworth have the largest number of EV drivers at 66%, 50% and 40% respectively.

Conclusions

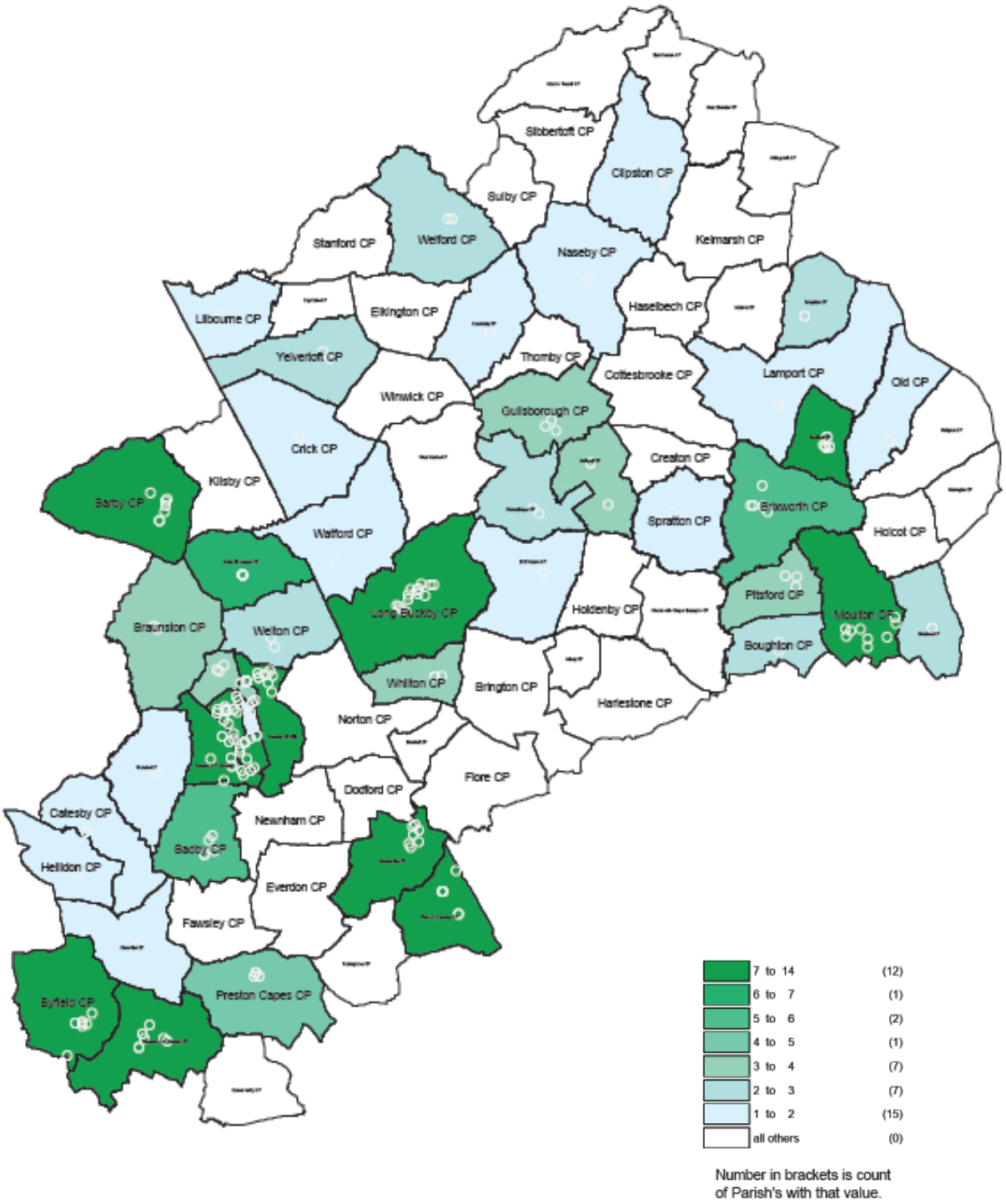
The main themes to see from these responses are similar to that of the national picture, the more chargepoints that are installed, the more people will make the transition to an EV. To enable the EV market to develop, people need to be able to access a chargepoint easily using a universal access such as pay as you go and avoid having multiple memberships. Although this is being addressed through national policy it is also something for DDC to consider when deciding on the type of chargepoints to be installed. It is also interesting to see some comments regarding the charging of electricity costs to the user. One respondent pointed out that the expectation is that charging points will be available, not necessarily free as per the current arrangement at the council offices. This is something for DDC to consider when expanding infrastructure further afield into the district, a review will need to take place to enable a consistent approach for all members of the public whereby electricity costs are either subsidised or paid for by the user.

Overall the response received from residents of Daventry District is predominantly positive regarding EVs and the associated infrastructure. It provides useful background information to be able to research further into the On-Street Residential Chargepoint grant scheme and identify appropriate areas for chargepoint installation. The following next steps have been identified as a guideline.

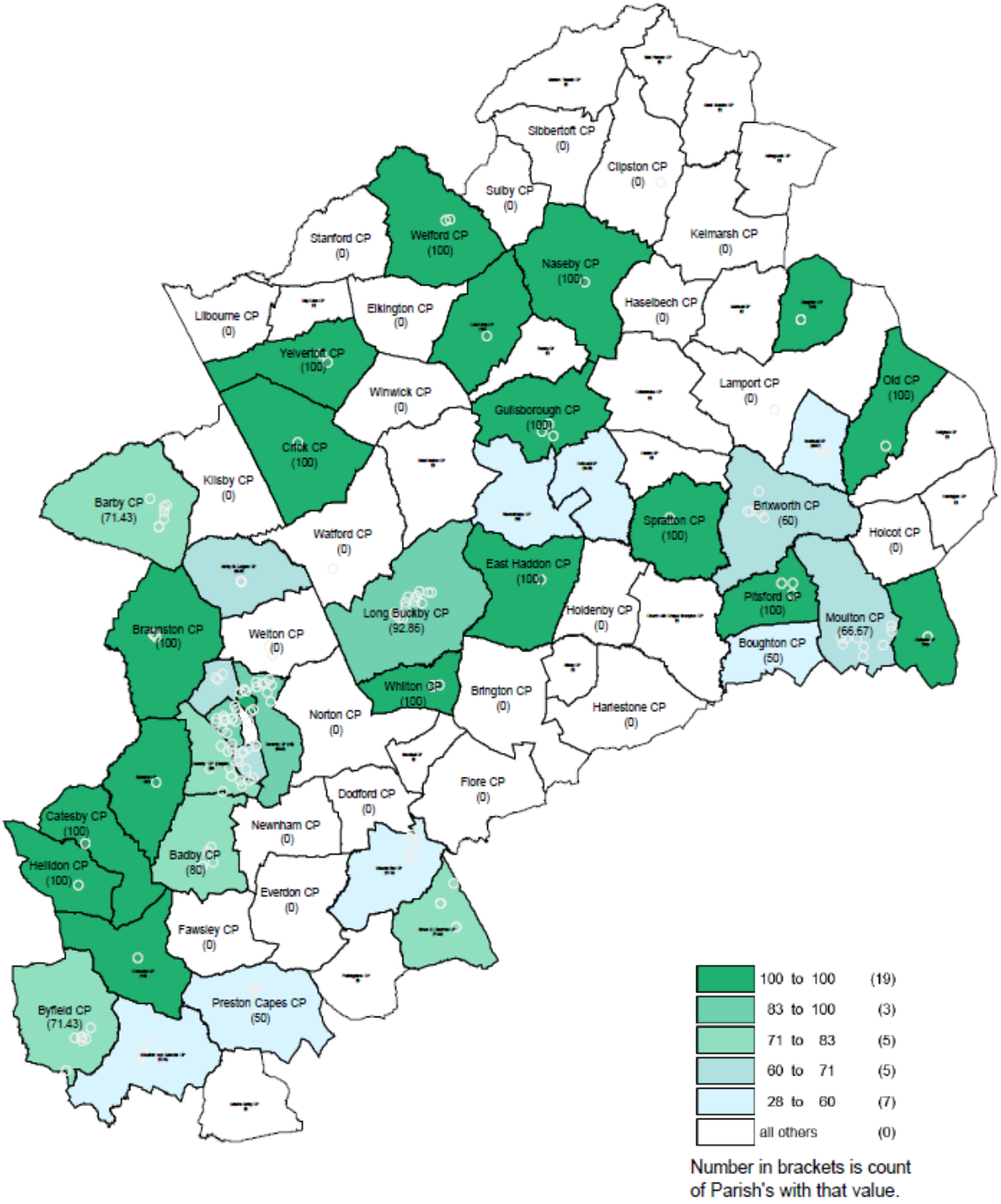
Next steps

- Identify key villages for potential EV infrastructure based on survey responses and previous research
- Identify areas where on-street parking will be required due to no off-street parking
- Seek interest from parish councils for collaboration and follow up with those who proactively showed an interest
- Work with the Energy Saving Trust and relevant bodies to put together a proposal and grant application for the On-Street Residential Chargepoint Scheme

Appendix 1 – Count of all respondents by Parish



Appendix 2 – Percentage of respondents who may purchase an EV/PHEV in the future (Q4)



Appendix 3 – Percentage of respondents who currently use an EV/PHEV for personal use (Q5)